

# New Technology Initiatives National Capitol Region

4 April 06

A stylized, dark teal silhouette of a mountain range is positioned in the bottom right corner of the slide, extending from the right edge towards the center.

# Fairfax County Contact Information

## ◆ Program Manager Roy Shrout, III

Office of Emergency Management

[Roy.shrout@fairfaxcounty.gov](mailto:Roy.shrout@fairfaxcounty.gov)

12000 Government Center Parkway  
Suite 565  
Fairfax, Virginia 22035

Office: (703) 324-2362

Fax: (703) 324-2303

## ◆ Project Manager Bruce M. Whitney

McDonald Bradley, Inc

[Bruce.whitney@fairfaxcounty.gov](mailto:Bruce.whitney@fairfaxcounty.gov)

12000 Government Center Parkway  
Suite 565  
Fairfax, Virginia 22035

Office: (703) 324-2339

Fax: (703) 324-2303

# Fairfax County Contact Information

## ◆ WebEOC Trainer

Andrea Miller

Data Acqsys, Inc.

[amiller@weblearningit.com](mailto:amiller@weblearningit.com)

10608 Abigail Drive  
Columbia, MD 21044

Office: (410) 740-0157  
Fax: (443) 583-0070

# Overview

- ◆ Overview
- ◆ Contact Information
- ◆ WebEOC Initiative
- ◆ EMnet Initiative
- ◆ Additional NCR Programs
- ◆ Questions

# NOVA WebEOC Implementation

## "It's Here & Working"

# The Problem

- ◆ Lack of Interoperability Between Emergency Operations Centers
- ◆ Lack of Interoperability Internally Between Agencies
- ◆ No Standardized Emergency Operations Management Tool
- ◆ WebEOC
  - MEMA Was Using It
  - VDEM, DCEMA Were Accessing It

# NOVA Solution

- ◆ The NOVA WebEOC Project Included
  - \$1.285M (To Be Expended By May 06)
  - Identify Which Of The 11 NOVA Jurisdictions Would Host A WebEOC Server
  - Procure The Needed Hardware and Software For The Participating Jurisdictions
  - Coordinate The Installation and Training
  - Configure and Test WebEOC (Patriot Challenge II)
  - Identify a host for the NOVA server

# Project Goals

- ◆ Secure Funding
- ◆ Connectivity and Information Sharing
  - 11 NoVA Jurisdictions
  - Interconnected with NCR
  - Federal Agencies
  - Local Agencies
- ◆ Training – All Aspects
  - User
  - Administrative
  - Board Building
- ◆ Customize WebEOC For Each NOVA EOC



# The Plan

- ◆ Hire Project Manager
- ◆ Coordinate With Each NOVA Jurisdiction
  - Hardware & Software Purchases
  - WebEOC Installation
  - Training
  - Customization
- ◆ Execute Funding To Met UASI Grant Requirements

# Implementation

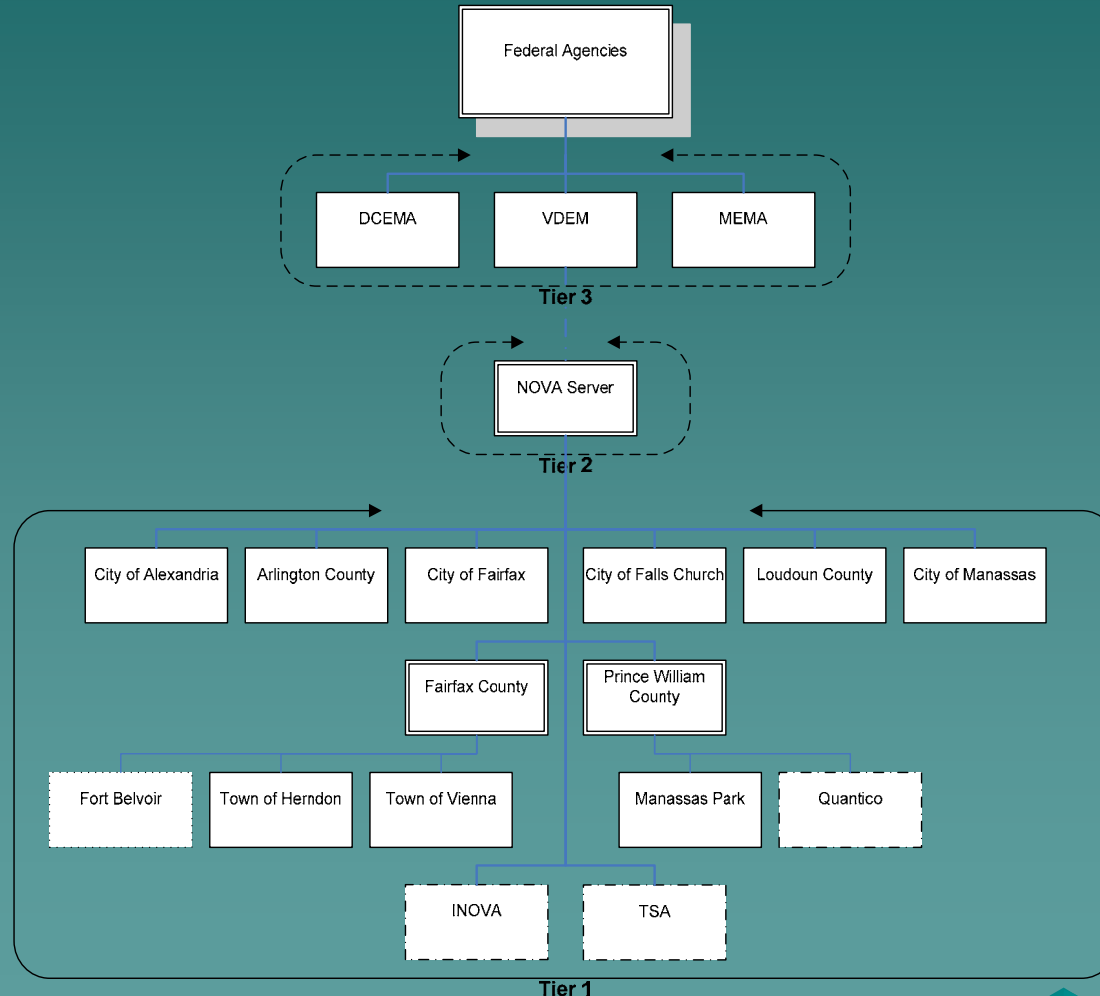
- ◆ Survey (IT Requirements)
- ◆ Identify POCs For Each Jurisdictions – Information Technology, Emergency Managers
- ◆ Identify NOVA Participants (8 Jurisdictions)
- ◆ Observe Existing WebEOC Installations For Lessons Learned (MEMA)
- ◆ Coordinate The Hardware And Software Installations
- ◆ Provide User, Administrative, And Board Building Training

# Participating Jurisdictions

- ◆ Arlington County
- ◆ Loudoun County
- ◆ Prince William County
  - City of Manassas Park (Hosted)
- ◆ City of Alexandria
- ◆ City of Manassas
- ◆ Fairfax County
  - Town of Herndon (Hosted)
  - Town of Vienna (Hosted)
- ◆ City of Fairfax
- ◆ City of Falls Church

# Current NOVA WebEOC Layout

## WebEOC



# Milestones

- ◆ 21 Sep 05 – McDonald Bradley Contracted
- ◆ 7 Nov 05 – First Install (Fairfax County, NOVA)
- ◆ 16 Dec 05 – 1<sup>st</sup> User Training Class
- ◆ 13 Jan 06 – NOVA Installations Completed
- ◆ 25 Jan 06 – Patriot Challenge II
- ◆ 6 Apr 06 – 1<sup>st</sup> Board Building Class
- ◆ 11 Apr 06 – 1<sup>st</sup> Administration Class
- ◆ 31 May 06 – '04 UASI Grant Funding Ends
- ◆ May 06 – Resource Management Module Testing Starts
- ◆ Jul 06 – RMM Rollout Anticipated

# Future

- ◆ Resource Management Module (RMM)
- ◆ GIS – GISe, EmerGeo or EMMA
- ◆ Further Customization
- ◆ Recurring Training
- ◆ Integrate Additional Local, State, Federal Agencies
- ◆ Roam Secure Integration

# Lessons Learned

- ◆ Governance – Very Limited
- ◆ IT – Security, Manpower, Inter-Agency Politics
- ◆ Managing a Multi-Tiered Deployment
- ◆ Event Notification
- ◆ Staffing Requirements
- ◆ Need An IT Savvy Administrator To Manage WebEOC

# NOVA WebEOC Implementation

## Sample NOVA and Fairfax County WebEOC Boards



# Control Panel With Shelter Board

The screenshot displays a web application interface. On the left is a 'WebEOC' control panel with a sidebar menu and a main content area. On the right is a 'FFX County Shelters Display' showing a table of emergency shelter status.

**WebEOC Control Panel (Left):**

- Buttons: Admin, Log Off
- Page Title: FFX WebEOC Admin, FFX - Training
- Navigation: Chat, Checklists, Contacts, Messages
- Sidebar Menu:
  - \* General Announcements
  - \* Significant Events
  - Position Log -
  - Admin Contacts
  - After Action Comments and Recommendations
  - All Missions/Tasks
  - Amateur Radio Board
  - Controller Review
  - FFX County Shelters (checked)
  - FFX Road Closures
  - NOVA Hospital Status
  - Press Release
  - Requests for Assistance
  - Skywarn Spotter Report
  - \*\* Test Boards
  - Forms
  - Internet Links
  - File Library
  - MapTac
  - NWS Weather Alerts
  - Remote Boards
  - Scroller

**FFX County Shelters Display (Right):**

FFX - Training  
American Red Cross/ Fairfax County Emergency Shelter Status

Shelter Name	Type	Current Status	Capacity	Staff Population	Evacuee Population	Available Spaces	Power Status	Last Update	Detail
Whitman Middle School		OPEN	125	5	32	88	Generator Power	04/03/2006 09:14:56	<a href="#">View</a>
Falls Church Community Center		CLOSED	50	0	0	50	Commercial Power	02/22/2006 11:29:48	<a href="#">View</a>
Herndon High School		CLOSED	125	0	0	125	Commercial Power	01/23/2006 13:27:40	<a href="#">View</a>
Edison High School		CLOSED	125	0	0	125	Commercial Power	01/23/2006 13:27:30	<a href="#">View</a>
City of Fairfax Fire Department		CLOSED	25	0	0	25	Commercial Power	01/23/2006 13:27:21	<a href="#">View</a>
Marshall High School		CLOSED	125	0	0	125	Commercial Power	01/23/2006 13:27:11	<a href="#">View</a>
Robinson Secondary School		CLOSED	200	0	0	200	Commercial Power	01/15/2006 20:59:28	<a href="#">View</a>
Chantilly High School		CLOSED	125	0	0	125	Commercial Power	01/15/2006 20:59:19	<a href="#">View</a>
			900	5	32	863			

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# Control Panel With Skywarn Board

The screenshot shows a web browser window with two tabs. The left tab is titled 'http://10.171.251.20 - We...' and displays the 'WebEOC' control panel. The right tab is titled 'http://10.171.251.20 - Skywarn Spotter Report Display - Microsoft Internet Explorer' and displays a 'Skywarn Spotter Report'.

**WebEOC Control Panel (Left Tab):**

- Buttons: Admin, Log Off
- FFX WebEOC Admin
- FFX - Training
- Chat, Checklists, Contacts, Messages
- Navigation menu:
  - \* General Announcements
  - \* Significant Events
  - Position Log —
  - Admin Contacts
  - After Action Comments and Recommendations
  - All Missions/Tasks
  - Amateur Radio Board
  - Controller Review
  - FFX County Shelters
  - FFX Road Closures
  - NOVA Hospital Status
  - Press Release
  - Requests for Assistance
  - Skywarn Spotter Report (checked)
  - \*\* Test Boards
  - Forms
  - Internet Links
  - File Library
  - MapTac
  - NWS Weather Alerts
  - Remote Boards
  - Scroller

**Skywarn Spotter Report (Right Tab):**

FFX - Training

Skywarn Spotter Report		
<b>Hail, High Winds</b> Wind Speed: 40 MPH Rain total: . Inches Hail Size: 2.50" (tennis ball) Snow total: . Inches Ice Total: . Inches	Fairfax	0850
Spotter: <b>Bruce</b> Skywarn Number: 112340-1 Telephone: (703) 324-2339 RACES Callsign (if applicable): Beamer	Confirmed by: <b>Fire</b> Time Confirmed: <b>0900</b> Reported to NWS: <b>Yes</b> Warning Issued: <b>No</b>	OEM Comments: <b>Fairfax County OEM confirms hail size ranging from 1"-2.50"</b>
<b>High Winds</b> Wind Speed: 35 - 45 MPH Rain total: . Inches Hail Size: . Snow total: . Inches Ice Total: . Inches	Loudoun County	0845
Spotter: <b>Bruce M. Whitney</b> Skywarn Number: 112340-1 Telephone: (703) 324-2339 RACES Callsign (if applicable): Beamer	Confirmed by: <b>Additional Spotters</b> Time Confirmed: <b>0850</b> Reported to NWS: <b>No</b> Warning Issued: <b>No</b>	OEM Comments: <b>Wind gusts of up to 65 MPH</b>
<b>Hail, High Winds, Rain</b> Wind Speed: 95-100 MPH Rain total: 4. Inches Hail Size: 2.50" (tennis ball) Snow total: . Inches Ice Total: . Inches	FFX Government Center	12:45

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Done Internet

# NOVA Hospital Diversion Board

http://10.171.251.20 - NOVA Hospital Status Display - Microsoft Internet Explorer

FFX - Training

NOVA Hospital Diversion Status: Emergency Operations Section

Organization Name	Diversion Status	Clinical Status	Emer. Ops Status	EM EOC Status	Facility Status	Security Status	Resources Staff	Facility Supplies	Clinical Supplies	Last Update	
INOVA Loudoun	Special Diversion	Normal	Inactive	Inactive	Normal	Restricted Access	Adequate	Adequate	Insufficient	04/03/2006 12:47:02	Edit
Access of Fairfax	Open	Normal	Active	Activated	Compromised	Normal	Adequate	Adequate	Adequate	04/03/2006 09:25:26	Edit
INOVA Mt. Vernon	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	03/06/2006 15:39:08	Edit
INOVA Fairfax	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:27:42	Edit
INOVA Alexandria	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:26:44	Edit
Virginia Hospital Center	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:25:51	Edit
Potomac Hospital	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:23:35	Edit
Prince William Hospital	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:21:32	Edit
RHCC	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/26/2006 21:20:26	Edit
Washington Hospital Center	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/24/2006 17:08:27	Edit
INOVA Fair Oaks	Open	Normal	Inactive	Inactive	Normal	Normal	Adequate	Adequate	Adequate	01/24/2006 14:53:08	Edit

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Done Internet

start E:\We... Inbox ... Micros... http://... Docum... http://... 1:14 PM

# Control Panel With Controller Review Board

The image shows a screenshot of a web application interface. On the left is the 'WebEOC' control panel with a sidebar menu and a top navigation bar. On the right is a 'Controller Review' display showing a list of training events with their details and status.

**WebEOC Control Panel (Left):**

- Top: **WebEOC** logo, **Admin** button, **Log Off** button.
- Header: **FFX WebEOC Admin**, **FFX - Training**.
- Navigation: **Chat**, **Checklists**, **Contacts**, **Messages**.
- Sidebar Menu:
  - \* General Announcements
  - \* Significant Events
  - Position Log —
  - Admin Contacts
  - After Action Comments and Recommendations
  - All Missions/Tasks
  - Amateur Radio Board
  - Controller Review (checked)
  - FFX County Shelters
  - FFX Road Closures
  - NOVA Hospital Status
  - Press Release
  - Requests for Assistance
  - Skywarn Spotter Report
  - \*\* Test Boards
  - Forms
  - Internet Links
  - File Library
  - MapTac
  - NWS Weather Alerts
  - Remote Boards
  - Scroller

**Controller Review Display (Right):**

FFX - Training		Controller Review	
FFX Training 1	Weather	Due to the great weather the class has been cancelled for the rest of the day.	
03/31/2006 10:47:00		Posted to GA	Life Threatening
FFX Training 2	Hostage/Barricade	Terrorist holding hostages at Starbucks on Lee Hwy. Demanding more creamer.	
03/31/2006 10:47:00		Posted to SE	Life Threatening
FFX Training 3	Highway Incident	30 Car Pile Up on I-495 by Rt. 7 Exit; Outer Loop.	
03/31/2006 10:47:00		Posted to SE	Life Threatening
FFX Training 1	Radio System Failure	Unable to transmit over radio, system has gone down.	
03/31/2006 10:47:00		Posted to SE	Critical
FFX Training 3	Train - Freight Derailment	2 boxcars of snickers bars spilled south of franconia station.	
03/31/2006 10:47:00		Posted to GA	Critical
FFX WebEOC Admin	Other	Test 1	
04/03/2006 09:29:00		Posted to GA	Life Threatening
FFX Training 3	Hostage	Fairfax County WebEOC hostage takers surrender - Roy Shrout/OEM storms AEOC with flaming Jell-O molotov cocktails.	
03/31/2006 10:47:00		Posted to SE & NOVA	Update

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# NCR Regional Awareness Board

The screenshot displays the NCR Regional Awareness Board web application. The main interface is divided into a left sidebar menu and a main content area. The sidebar menu includes options like 'General Announcements', 'Significant Events', 'Position Log', 'Admin Contacts', 'After Action Comments and Recommendations', 'All Missions/Tasks', 'Amateur Radio Board', 'Controller Review', 'FFX County Shelters', 'FFX Road Closures', 'NOVA Hospital Status', 'Press Release', 'Requests for Assistance', 'Skywarn Spotter Report', 'Test Boards', 'Forms', 'Internet Links', 'File Library', 'MapTac', 'NWS Weather Alerts', 'Remote Boards' (which is checked), and 'Scroller'. The main content area shows a list of regional events, including 'Regional Events', 'NCR Regional Awareness', 'Road Closures', and 'Skywarn Spotter Report'. Below this, a table displays the 'NCR Regional Awareness' data, showing event details such as date, time, subject, location, and submitted by.

**WebEOC® ESI**  
 Admin Log Off  
 FFX WebEOC Admin  
 FFX - Training  
 Chat Checklists Contacts Messages

- \* General Announcements
- \* Significant Events
- Position Log -
- Admin Contacts
- After Action Comments and Recommendations
- All Missions/Tasks
- Amateur Radio Board
- Controller Review
- FFX County Shelters
- FFX Road Closures
- NOVA Hospital Status
- Press Release
- Requests for Assistance
- Skywarn Spotter Report
- \*\* Test Boards
- Forms
- Internet Links
- File Library
- MapTac
- NWS Weather Alerts
- Remote Boards
- Scroller

**Regional Events**

- NCR Regional Awareness
- Road Closures
- Skywarn Spotter Report

**FFX - Training**

**NCR Regional Awareness**

Event Date/Time	Subject	Location	Submitted By	View Details
02/03/2006; 12:30	IED	Montgomery County: Gaithersburg	J. Hamilton	<a href="#">View</a>
01/31/2006; 22:13	State of Union	DC	J. Hamilton, Operations Supervisor	<a href="#">View</a>

# NoVA EMnet Implementation



# NoVA EMnet Implementation

- ◆ What Is EMnet? – Emergency Management Network
  - Secure Satellite Messaging System
  - EAS (Emergency Alert System – Send And Receive)
  - Connection – Local, State News Agencies, National Weather
  - Amber Alerting
- ◆ What Are We Providing?
  - Purchase – Hardware (Computer And Satellite Dish) And Software
  - Coordinate Installation, Training And Testing

# NoVA EMnet Implementation

- ◆ '05 UASI Funded (\$70,000)
- ◆ 2 Years of Maintenance Included
- ◆ 11 NoVA Jurisdictions Participating



# NoVA EMnet Implementation

- ◆ Survey Completed, Dec 05
- ◆ Revised Quote Received, Feb 06
- ◆ Implementation Expected to Start, May 06
- ◆ Expected Final Installation, June 06
- ◆ Training and Testing, June 06

# Additional Programs National Capitol Region

- ◆ Satellite Telephone Interoperability
- ◆ Video/Web Based Conferencing
- ◆ Teleconferencing
- ◆ HSIN (Homeland Security Information Network)
- ◆ Regional HUB (Disparate System)
- ◆ Regional Mapping
- ◆ Smart Card

# New Technology Initiatives National Capitol Region

Questions?